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PCT09

P5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/890,220

DATE: 02/27/2002
TIME: 13:27:47

Input Set : A:\EP.txt
Output Set: N:\CRF3\02272002\I890220.raw

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3 <110> APPLICANT: Dean, Caroline
4 Gendall, Anthony
6 <120> TITLE OF INVENTION: Methods and means for modification of plant characteristics
using the
7 vernalisation gene VRN2.
9 <130> FILE REFERENCE: Mewburn
11 <140> CURRENT APPLICATION NUMBER: US 09/890,220
12 <141> CURRENT FILING DATE: 2001-07-27
14 <150> PRIOR APPLICATION NUMBER: PCT/GB00/00248
15 <151> PRIOR FILING DATE: 2000-01-28
17 <150> PRIOR APPLICATION NUMBER: GB 9901927.5
18 <151> PRIOR FILING DATE: 1999-01-28
20 <160> NUMBER OF SEQ ID NOS: 77
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1722
26 <212> TYPE: DNA
27 <213> ORGANISM: Arabidopsis thaliana
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32 gcatttaggtt tatcgctatg acgttagggaa attctaattt aggggaggcc tcagagttt 180
33 cactaacttc ataatcggtt cttagcgttg ttgagtgtaa ttgaacaaga atgtgttaggc 240
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35 tatattgtaa acctgttcga ctatataaca tctttcacct tcgctctcta ggcaacccat 360
36 cgtttcttcc aagatgttg aactacaaa ttggagcaaa ggcacaaaaga aagtaagat 420
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41 atgacgataa atttgagccc ttctctctt gctgaaacc tcgtaaagcgg agacaaagag 720
42 gtggcagaaa taacaccagg agacttaaaat tatgtttt accgttggat tcaccagtt 780
43 taactaatgg cacagaaaat ggaatcaccc tacttaatga tggaaacccgt ggtttaggat 840
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49 agatgttgc tgactttgtt gatgtgttgc aagatgaaaa gcaattcatg catctttgg 1200
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55 atgacataaa caacaagaac aatgttgaca acaaggacaa taacagcaga gacaaagtaa 1560
 56 ttaaatagga aaatctccgg ctttatgat accgatttat cggattgtaa cttattcttc 1620
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 71 20 25 30
 73 Asn Ile Phe His Leu Arg Ser Leu Gly Asn Pro Ser Phe Leu Pro Arg
 74 35 40 45
 76 Cys Leu Asn Tyr Lys Ile Gly Ala Lys Arg Lys Arg Lys Ser Arg Ser
 77 50 55 60
 79 Thr Gly Met Val Val Phe Asn Tyr Lys Asp Cys Asn Asn Thr Leu Gln
 80 65 70 75 80
 82 Lys Thr Glu Val Arg Glu Asp Cys Ser Cys Pro Phe Cys Ser Met Leu
 83 85 90 95
 85 Cys Gly Ser Phe Lys Gly Leu Gln Phe His Leu Asn Ser Ser His Asp
 86 100 105 110
 88 Leu Phe Glu Phe Glu Phe Lys Leu Phe Glu Glu Tyr Gln Thr Val Asn
 89 115 120 125
 91 Val Ser Val Lys Leu Asn Ser Phe Ile Phe Glu Glu Glu Gly Ser Asp
 92 130 135 140
 94 Asp Asp Lys Phe Glu Pro Phe Ser Leu Cys Ser Lys Pro Arg Lys Arg
 95 145 150 155 160
 97 Arg Gln Arg Gly Gly Arg Asn Asn Thr Arg Arg Leu Lys Val Cys Phe
 98 165 170 175
 100 Leu Pro Leu Asp Ser Pro Ser Leu Thr Asn Gly Thr Glu Asn Gly Ile
 101 180 185 190
 103 Thr Leu Leu Asn Asp Gly Asn Arg Gly Leu Gly Tyr Pro Glu Ala Thr
 104 195 200 205
 106 Glu Leu Ala Gly Gln Phe Glu Met Thr Ser Asn Ile Pro Pro Ala Ile
 107 210 215 220
 109 Ala His Ser Ser Leu Asp Ala Gly Ala Lys Val Ile Leu Thr Ser Glu
 110 225 230 235 240
 112 Ala Val Val Pro Ala Thr Lys Thr Arg Lys Leu Ser Ala Glu Arg Ser
 113 245 250 255
 115 Glu Ala Arg Ser His Leu Leu Leu Gln Lys Arg Gln Phe Tyr His Ser
 116 260 265 270
 118 His Arg Val Gln Pro Met Ala Leu Glu Gln Val Met Ser Asp Arg Asp
 119 275 280 285
 121 Ser Glu Asp Glu Val Asp Asp Asp Val Ala Asp Phe Glu Asp Arg Gln
 122 290 295 300
 124 Met Leu Asp Asp Phe Val Asp Val Asn Lys Asp Glu Lys Gln Phe Met
 125 305 310 315 320

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127 His Leu Trp Asn Ser Phe Val Arg Lys Gln Arg Val Ile Ala Asp Gly
 128 325 330 335
 130 His Ile Ser Trp Ala Cys Glu Ala Phe Ser Arg Phe Tyr Glu Lys Glu
 131 340 345 350
 133 Leu His Arg Tyr Ser Ser Leu Phe Trp Cys Trp Arg Leu Phe Leu Ile
 134 355 360 365
 136 Lys Leu Trp Asn His Gly Leu Val Asp Ser Ala Thr Ile Asn Asn Cys
 137 370 375 380
 139 Asn Thr Ile Leu Glu Asn Cys Arg Asn Ser Ser Asp Thr Thr Thr
 140 385 390 395 400
 142 Asn Asn Asn Asn Ser Val Asp Arg Pro Ser Asp Ser Asn Thr Asn Asn
 143 405 410 415
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 163 ttctcaagcg gggaaagagag agaaagtcaag attcagattt gcagaaaacg tcattccattt 300
 164 gattcctctc attcttcttc tctgtatcgc aatcctctgg ctctcctt attcaggtaa 360
 165 gccgagaaat tgattcaatc totatgaatc cataattgtat atgtgaaact taatttaggaa 420
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 177 gcacaatata tttaacatata acaaatttttta atctaaaagt ttttatttttatttataa 1140
 178 cwtctgaatg aagcaaaattt atttgcattt ttaatcatcc attttatgtt taatcagcc 1200
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187 gtttaaaaata tggccataa ggcccagact tgaaaaaaaaa acttggaaacc caaagtata 1740
188 ttttacttg tttctcttt ctcaatgtaa atctccaaat caagcttctt cgattttgct 1800
189 ctctcttaca cagccaaatcg gtgtttcgc agcttcagg ttgtctcaa tctcaattaa 1860
190 aatcgaggc aagtaataac aattgataaa cctaattgtt tccattgtat tgtaagattt 1920
191 gaaatttgc ttagatccg gaatcgaatt ctatgtctgg aatcggtat ctcgatggaa 1980
192 tttttttt aagatttctt cttacacatt tggttcaaaa gatcacatag ttttattttt 2040
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2/27/02

VERIFICATION SUMMARY
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DATE: 02/27/2002
TIME: 13:27:48

Input Set : A:\EP.txt
Output Set: N:\CRF3\02272002\I890220.raw

L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.